

Next Generation Intelligent Patent Information Infrastructure

-Computational Intelligence challenges

Human Intelligence

Patentics.com

Patentics System

First largest Concept Search Engine in the World;

Mathematically Models 6.2M US, 3M EP/WO, 2.9M CN Full-Text Patent Documents;

Performance Matches with World's Patent Examiners'!

- Intelligent Auto Search;
- Intelligent Data Contents with 8 billions of context-aware hyperlinks;

1. For World Patent Authorities:

20% 35% improvement in e-xamination process; No Office Space required! No Headcount increased!

2. For Data Service Providers:

Connected/Structualized Contents Space; 300% Users Click through Rate/Pageview; Service Revenue Increased!

	Input patent number and get						
	ranking results						
ab/2008240713	, the second sec				Search	Help	
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1ost Relevant 4	00 results: 厚 臨 開 🛛 🖽 🔟 🔛 몶 🗘 🞯		Rank(%):0 Filte PN:				Ranking first
PN	Title	Assignee	Inventors	Class	ICL	Rank *	
2008/0240713	METHOD AND APPARATUS FOR AUTOMATIC RESTORATION DETECTION AND AUTOMATIC RESTORATION OF OPTICAL COMMUNICATION SYSTEM	Huawei Technologies Co., Ltd.	Lu; Yiquan Li; Congqi Wang; Hao Chen; Juan		H04B	100%	matched with examiner cited
2005/0185957	Optical output control method for use in optical transmission node and optical output contro apparatus for use in the same	Fujitsu Limited	Ohtanı, Toshihiro Sato, Masaki	398	H04B	90%	examiner cited
2002/0114060	Optical amplifier		Kobayashi, Hideki Takahashi, Tsukasa Ohtani, Toshihiro Izumi, Futoshi Mori, Shota	359	H01S	89%	
2003/0035184	Optical transmission system	Fujitsu Limited	Shin-Ichirou Yokota, Izumi	398	H04B	89%	Danking cocon
5,504,630	Automatic power shut-down arrangement for optical line systems	Lucent Technologies Inc.	Czarnocha; William Israel; John G. McKay; Bradley A. Ng; Chu	398	H04B	89%	Ranking second matched with
005/0281556	Optical switching apparatus and optical communication network system	HITACHI, LTD.	Kitajima, Shigeki Kakizaki, Sunao Tsushima, Hideaki Fukashiro, Yasuyuki	398	H04J	88%	examiner cited
2003/0128979	Optical switching apparatus and optical communication network system		Kitajima, Shigeki Kakizaki, Sunao Tsushima, Hideaki Fukashiro, Yasuyuki	398	H04B	88%	
2007/0242347	Optical transmission system	Fujitsu Limited	Ishikawa; Eiji Ikeda; Hiroto Deguchi; Hiroyuki	359	H04B	88%	
004/0042063	Optical transmission system	Fujitsu Limited	Ohtanı, Toshihiro Takahashi, Tsukasa Ishikawa, Eiji Ikeda, Hiroto Deguchi, Hirovuki	359	H01S	88%	Ranking eight
2002/0131099	Optical transmission system	Fujitsu Limited	Harasawa, Shin-Ichirou	398	H04B	88%	
2003/0194233	Automatic protection system for an optical transmission system	Cisco Photonics Italy S.r.L.	Casanova, Mauro Rudi Centenari, Pietro Nava, Adriano	398	G02F	88%	matched with examiner cited
5,583,899	Automatic protection system for an optical transmission system	Cisco Photonics Italy S.r.L.	Casanova; Mauro Rudi Centenari; Pietro Nava; Adriano	398	H04B	88%	examiner enced
5,194,707	Automatic laser shutdown method and apparatus in optical transmission system	Samsung Electronics Co., Ltd.	Yang; Ki-Seon	250	H04B	88%	
5,626,587	Method and system for transmitting optical communication	ECI Telecom Ltd.	Marmur; Oren	398	H04B	87%	
004/0071392	Optical shutter		Lauder, Andrew G	385	G02B	87%	
2003/0011855	Optical transmission system	Fujitsu Limited	Fujiwara, Haruo	398	H04B	87%	
004/0081460	Optical switching apparatus, optical transmission system and method of setting up for optical signal route	HITACHI, LTD.	Kakizaki, Sunao Tsushima, Hideaki Kitajima, Shigeki Fukashiro, Yasuyuki Mori, Takashi	398	H04B	86%	
5,313,940	System based control of optical amplifier transmission functions	Lucent Technologies Inc.	Bode; Dirk Hyun; Victor S. Israel; John G. Lingner, III; Gerard T. McKay; Bradley A. Nadhumi; Prasanna R. Thompson; William A.	359	H01S	86%	
2002/0024690	Optical level control method		Iwaki, Hiroyuki Wada, Tetsuo	398	H04J	86%	
2005/0207753	Optical protection apparatus	FUJITSU LIMITED	Touma, Eisaku	398	G02F	86%	1



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number

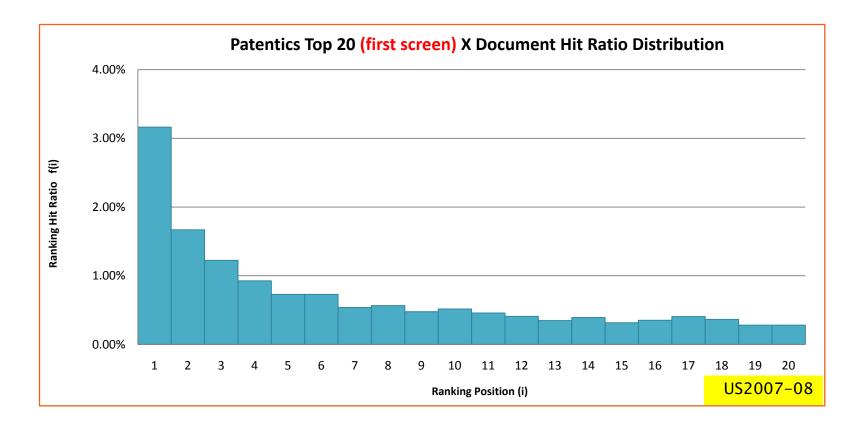
EP 06 75 3022

EPO Search Report cited
3 US documents as X
and all matched in first
screen by Patentics

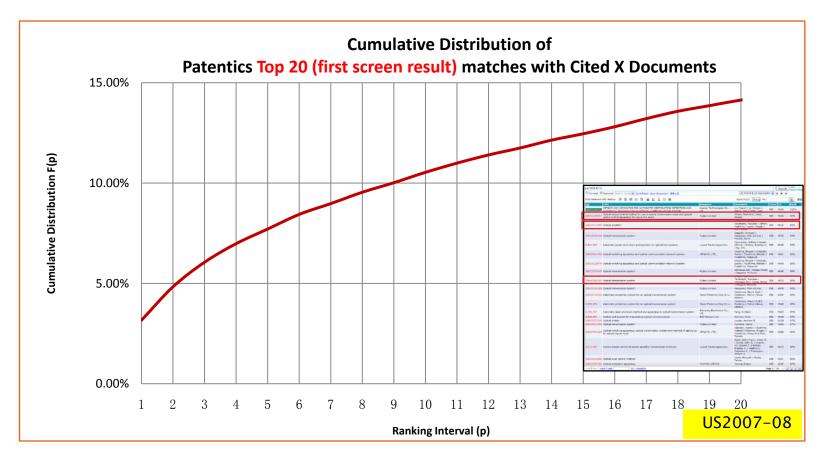
	DOCUMENTS CONSID							
Category	Citation of document with in of relevant pass	ncication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)				
х	US 2005/185957 A1 (ET AL) 25 August 20	(OHTANI TOSHIHIRO [JP] 005 (2005-08-25)	1-23,29, 30,33,	INV. H04B10/08				
Y	* the whole documer	36-38 24-28, 31,32, 34,35						
D.X	"Optical safety pro requirements for op systems" ITU-T RECOMMENDATIO 1 March 2003 (2003- XP002307774 * pages 5-18 *	otical transport	1-23,29, 30,33, 36-38					
X	US 2002/114060 A1 (ET AL) 22 August 20	(KOBAYASHI HIDEKI [JP] 002 (2002-08-22)	1-23,29, 30,33, 36-38					
	* the whole documer	it *	50-55	TEQUINONI DEI DP				
x	EP 0 581 138 A (ALC 2 February 1994 (19 * the whole documer	994-02-02)	1-23,29, 30,33, 36-38	TECHNICAL FIELDS SEARCHED (IPC) H04B				
Х	US 2004/042063 A1 (ET AL) 4 March 2004	(OHTANI TOSHIHIRO [JP] 4 (2004-03-04)	1-23,29, 30,33,					
	* abstract * * paragraphs [0005] * paragraphs [0059] * figures 9,10 *	- [0074] * -/	36-38					
	set of claims valid and available Place of search	at the start of the search. Date of pompletion of the search	1,	Examinar				
	Munich	an Cisneros, E						
X : part Y : part door A : tech O : non	CATEGORY OF OITED DOCUMENTS T : theory or principle underlying the invention X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document							

Automatic Matches with Search Reports by World's Patent Examiners

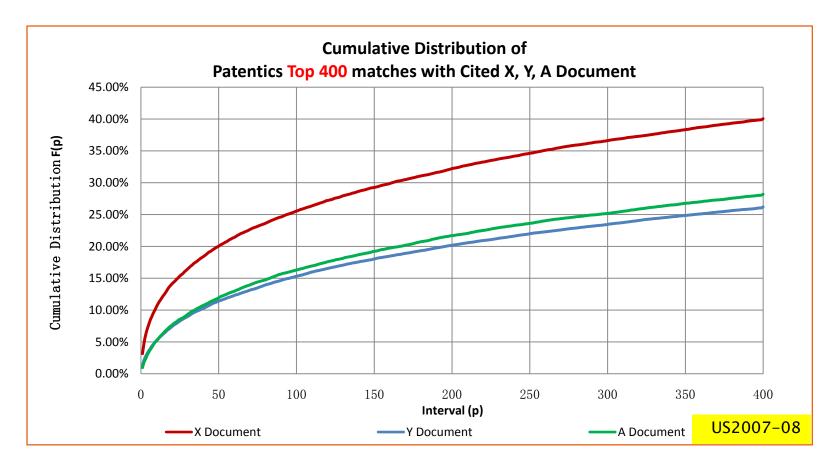
- Input a patent number without any search strategies, Calculate and Rank the related patent documents automatically;
- Match cited X/Y/A in search reports submitted by EPO, USPTO, JPO, SIPO examiners through PCT;
- English Search Report Contest-1:
 - 1. EPO2007-08 total 73,282 with cited US/US family X documents 34,213;
 - 2. USPTO2007-08 total 44,847 with cited US/US family X documents 22,480;
 - 3. JPO2004-09 total 89,683 with cited US/US family X documents 8,623;
 - 4. JPO2004-09 total 89,683 with Abstract and cited US/US family X documents 3,475;
- Chinese Search Report Contest-1:
 - 1. SIPO2004-09 total 15,522 with cited CN/CN family X documents 6,791;



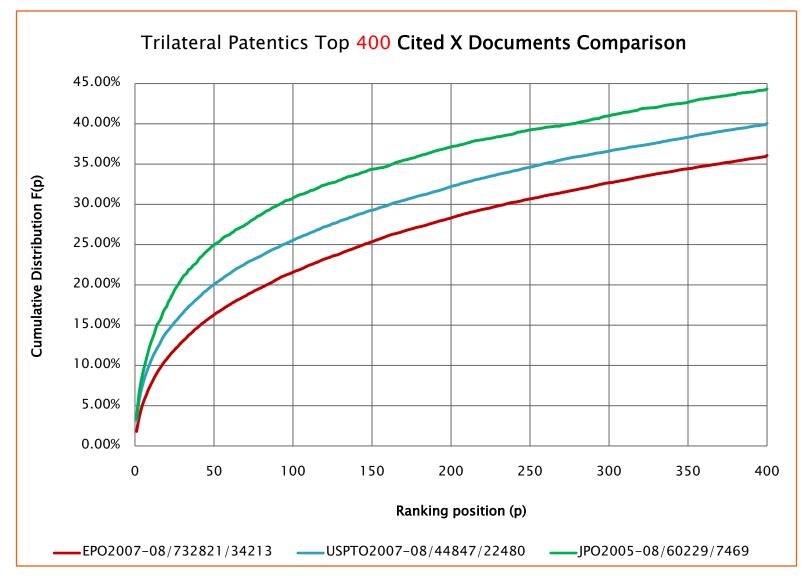
- 1. Most probable position ranked by Patentics for cited X documents is at top 1;
- 2. Higher than 3% chance, cited X documents is at top 1.



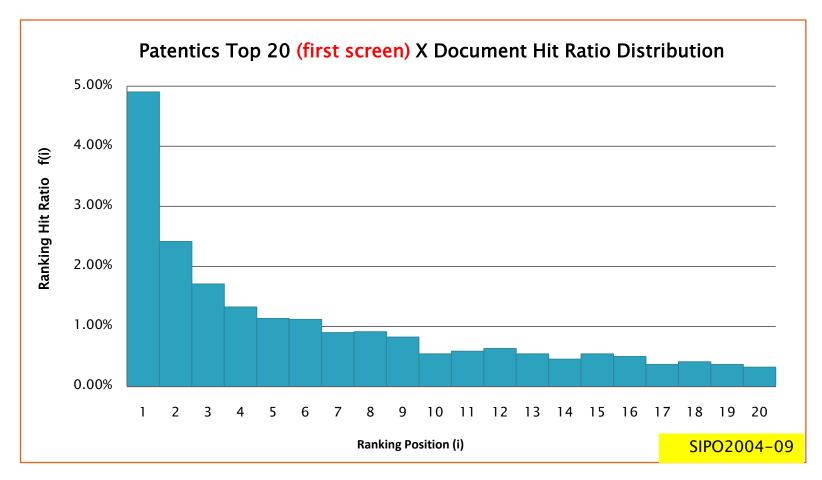
1.Higher than 15% chance, cited X documents will appear in first result screen as ranked by Patentics .



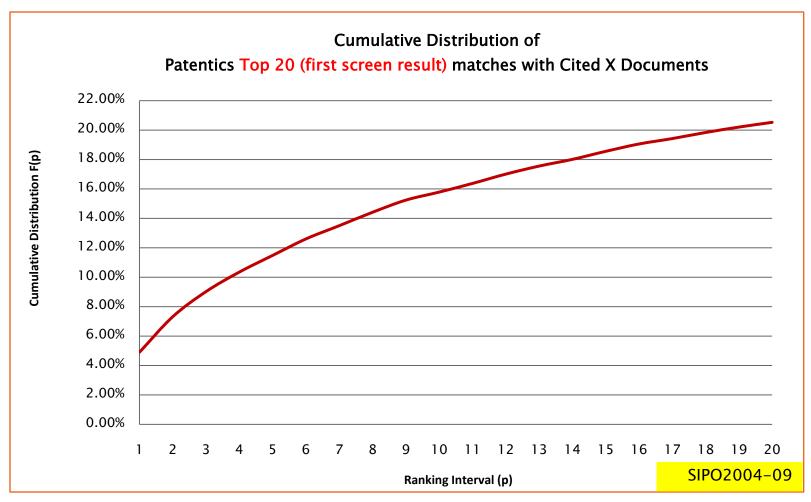
- 1. After reading through documents, examiners cite X/Y/A documents and make a grading on relevance in the order of X, Y/A;
- 2. The same relevance grading is acquired and emulated by Patentics, X is highest, Y/A is low.



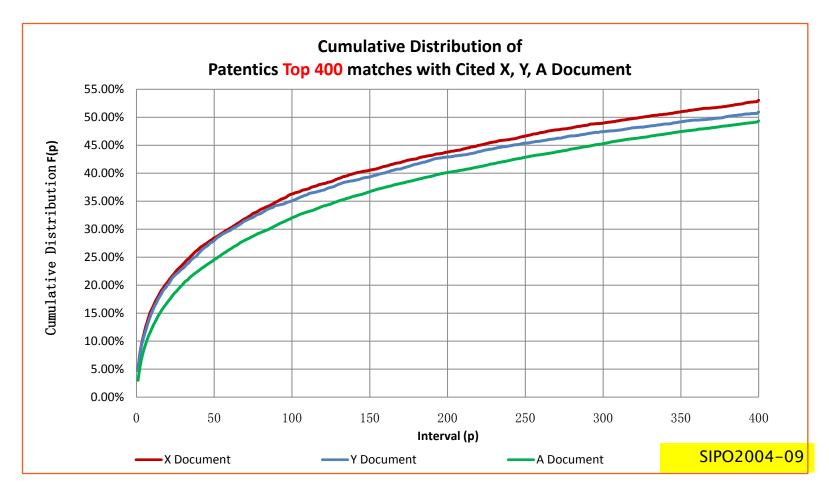
* ORG/from year-to/Total Count/Cited Count



- 1. Most probable position ranked by Patentics for cited CN X documents is at top 1;
- 2. Near 5% chance, cited CN X documents is at top 1.



1. Higher than 20% chance, cited CN X documents will appear in first result screen as ranked by Patentics .



After reading through documents, examiners cite CN X/Y/A documents and make a grading on relevance in the order of X, Y/A;

The same relevance grading is acquired and emulated by Patentics, X is highest, Y/A is low.

Patentics Intelligence Aligns Best with the Best Human Intelligence

A hypothesis in academic that fundamental innovation patents and litigated patents are good quality patents comparing to general ones, because

- 1. Inventors make fundamental innovation researching prior art with great effort either citing extensively or nothing;
- 2. Inventors anticipate litigation trying to make patents as strong as possible by researching and citing prior art extensively;

Challenge is, can Patentics validate that well-known hypothesis with mathematical precision

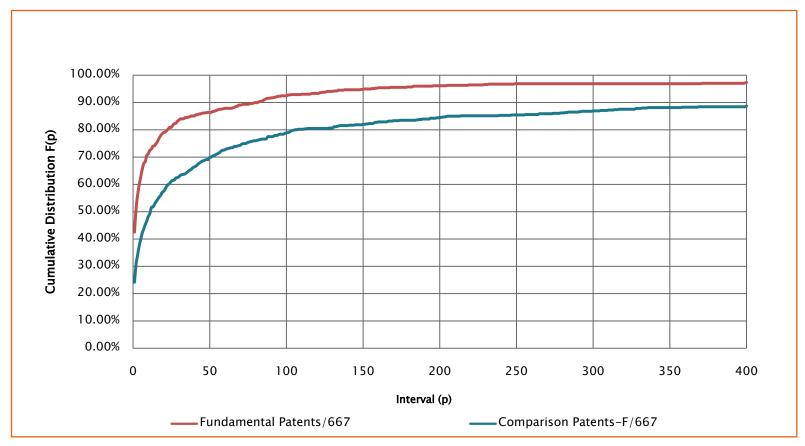
- Based on a list of 667 fundamental US patents provided by IEEE as a test sample set (Fundamental Patents), and randomly sample 667 patents with the same IPC and filed in the same month as a comparison set (Comparison Patents-F);
- 2. Based on a list of 300 litigated US patents provided by http://www.patstats.org as a test sample set (Litigated Patents), and randomly sample 300 patents with the same IPC and filed in the same month as a comparison set (Comparison Patents-L);

The result is, Patentics intelligence matches not only with the human intelligence, but also best with the best human intelligence.

References:

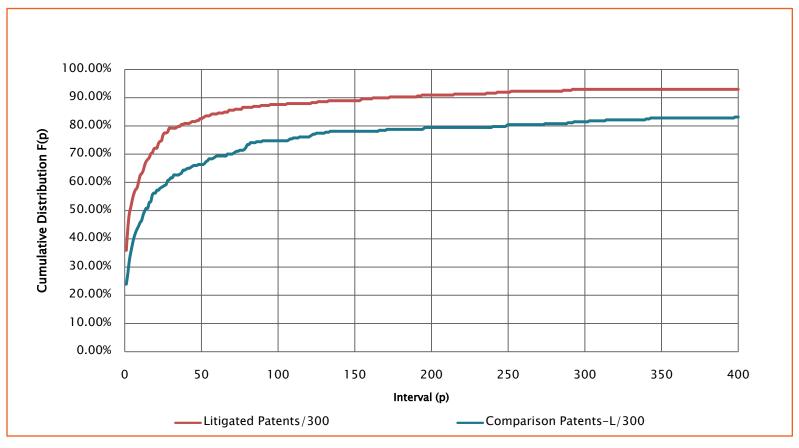
- 1. Valuable Patents, <u>http://papers.ssrn.com/sol3/papers.cfm?abstract_id=426020&rec=1&srcabs=881842</u>
- 2. Characteristics of patent litigation: a window on competition, <u>http://www.rje.org/abstracts/abstracts/NBER/rje_Spring'01_Lanjouw.pdf</u>
- 3. The Influence of IEEE on Key Patents, http://www.ieee.org/portal/cms_docs_iportals/discover/sub_pages/IEEE_Key_Patents_2006.pdf

Cumulative Distribution of Patentics Top 400 matches with prior art cited by Fundamental Patents/Comparison Patents-F's inventors



Patentics Intelligence Aligns Best with the Best Human Intelligence

Cumulative Distribution of Patentics Top 400 matches with prior art cited by litigated Patents/Comparison Patents-L's inventors



Patentics Intelligence Aligns Best with the Best Human Intelligence

Cross-Language Searching

- 1. From our study, if a foreign patent is cited, higher than 70%, it is a US patent/application;
- Leverage highly accurate 6.2 Million US Patent Canonical Model (UPCM);
- 3. By Inputting a non-US patent number (CN Application) directly, and searching in UPCM;
- 4. Comparison Tests conducted,
 - Utilizing CN application's US family number to search in UPCM and match ranking result with EPO examiners search report (EN->EN);

FN

CN

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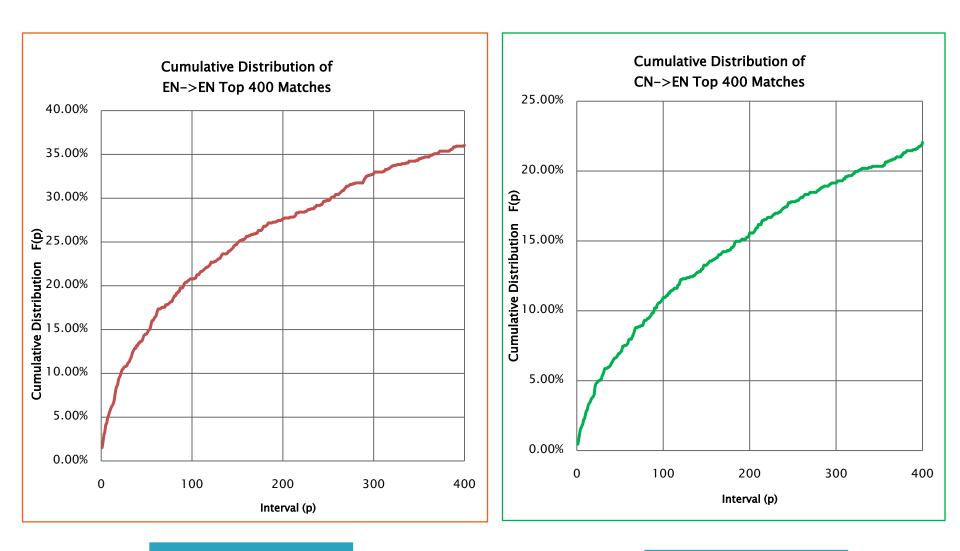
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US Patent & US Application

S Patent & US Applicat

Directly inputting CN application number to search in UPCM and match ranking result with EPO examiners search report (CN->EN);

Concept OKey



SIPO2004-09/15522/1049

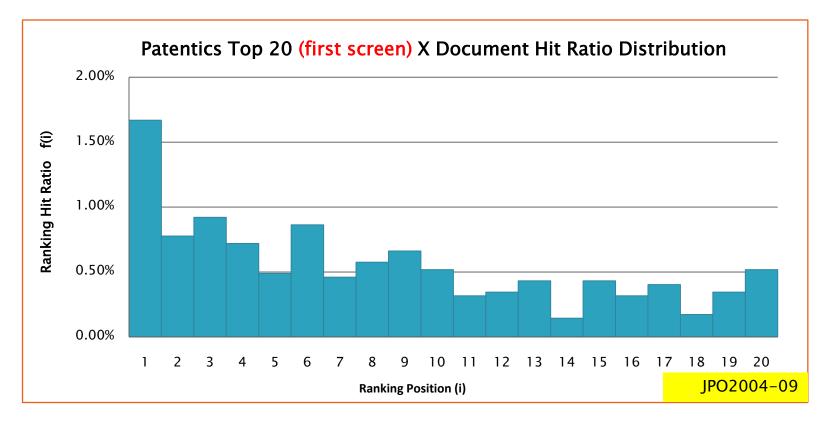
EN->EN

CN->EN

Abstract Auto-Search For Non-English Language Patent Authorities

- Another solution for Non-English Language Patent Authorities;
- With a paragraph of English abstract and application priority date;
- Let Patentics do auto-search to find ranked prior art in US full-text;
- With less information available, Patentics Performance is only a few points lower than full English language patent application searched!

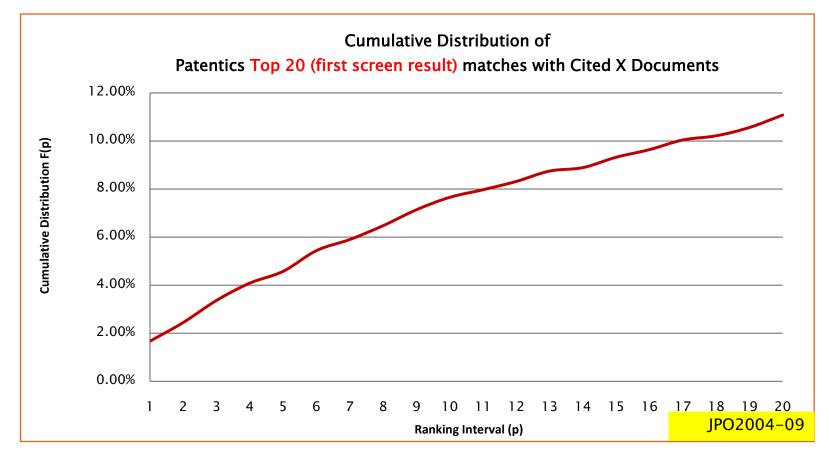
Abstract Searching



Just input a patent's Abstract with APD, let Patentics calculates and ranks,

- 1. Most probable position ranked by Patentics for cited EN X documents is at top 1;
- 2. Near 2% chance, cited EN X documents is at top 1.

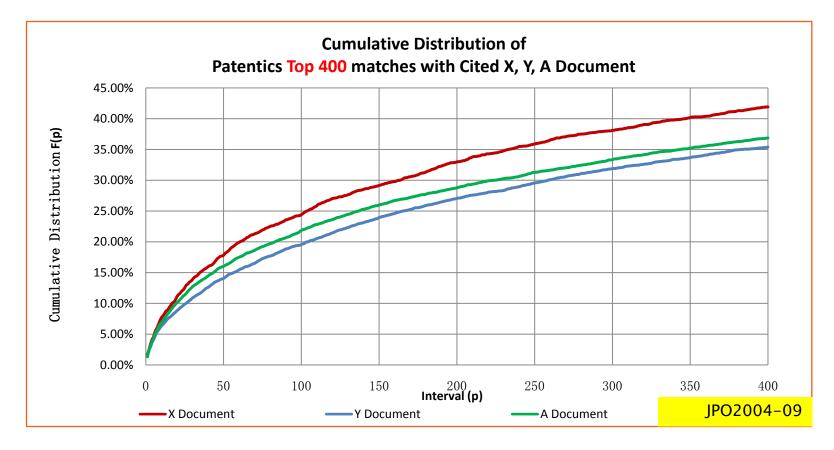
Abstract Searching



Just input a patent's Abstruct, let Patentics calculates and ranks,

1. Higher than 10% chance, cited EN X documents will appear in first result screen as ranked by Patentics .

Abstract Searching



After reading through documents, examiners cite EN X/Y/A documents and make a grading on relevance in the order of X, Y/A;

The same relevance grading is acquired and emulated by Patentics, X is highest, Y/A is low.

Bar is Raised and Standard is Set

- Technologies and test methods we developed have far-reaching effect in World Patent Communities;
- Bar is raised, Standard is set, Machine Intelligence to match Human Intelligence is possible!
- Detailed test results to be published in <u>www.patentics.com/doc/test-results-en.htm</u>;
- Our Test Results are very easy to be validated by World Patent Communities!
 - 1. Manual Test:

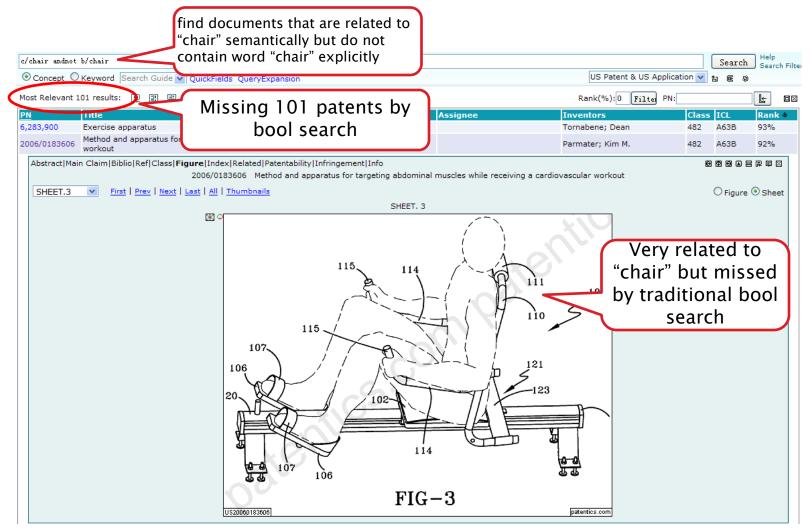
Visiting our site <u>www.patentics.com</u>, and manually inputting patent numbers and checking results;

- 2. Auto-Test:
 - Sending us a batch of PN numbers, or EN abstracts with Application Date by you;
 - Returning ranked results to you by us;
 - Checking results with your X/Y/A reports by you.

Why concept search?

	Traditional		ssociated /phrases					
b/chair 🧲	Boolean search		\downarrow \uparrow	W	E			
B←back rest B←reclining	B+foot rest B←arm rest	B←back support B←sitting position	_{B←} reclining (_{B←} leg suppo			>		
42042 results: 📄 🕮 🛱 🖂 🕒 🕌 🖁 (34) 🗆 (190) 🗆 (50) 🗖 (182) 🗖 (31) 🚆 (218) 🔠 (79) Rank(%): 0 🛛 🕅 Filte								
PN 🕸	Title	Assignee	Inventors	Class	ICL	<u>Rank</u>		
7,600,017	System and method for scoring electronic messages	BuzzMetrics, Ltd.	Holtzman; David Kodey; Robert Pool; David	709	G06F	0%		
7,599,538	Method and system for automatic intra-onal sensor locating for image acquisition	Apteryx, Inc.	Crucs; Kevin M.	382	G06K	10%		
7,599,394	Common rate control method for reverse hannels in CDMA networks	Telefonaktiebolaget LM Tricsson	Hosein; Patrick Wu; Tao	370	H04J	7%		
7,599,323	Multi-interface mobility client	Icatel-Lucent USA Inc.	Chandranmenon; Girish P. Lee; Yui-Wah Miller; Scott C. Salgarelli; Luca Virani; Salim	370	H04W	0%		
7,599,044	Method and apparatus for remotely detecting presence	Apple Inc.	Hotelling; Steve P. Brenneman; Scott A.	356	G01B	0%		
7,598,979	Imaging device with blur reduction system including a primary array and at least one navigation array	Aptina Imaging Corporation	Trutna, Jr.; William R. Cooper; Peter David	348	H04N	5%		
7,598,976	Method and apparatus for a multisensor imaging and scene interpretation system to aid the visually impaired	I See Tech Ltd.	Sofer; Eli Tidhar; Amnon	348	H04N	12%		
7,598,294	3,4-methylenedioxy-substituted chalcones as therapeutic agents	Spear Therapeutics Limited	Potter; Gerard A Butler; Paul C	514	A61K	0%		
7,598,289	Ketones and reduced ketones as therapeutic agents for the treatment of bone conditions	The University Court of the University of Aberdeen	Ralston; Stuart H. Greig; Iain R. Mohamed; Aymen I. I. Van 'T Hof; Robert J.	514	A61K	0%		

Impossible to read all 42042 documents!



But still missed!

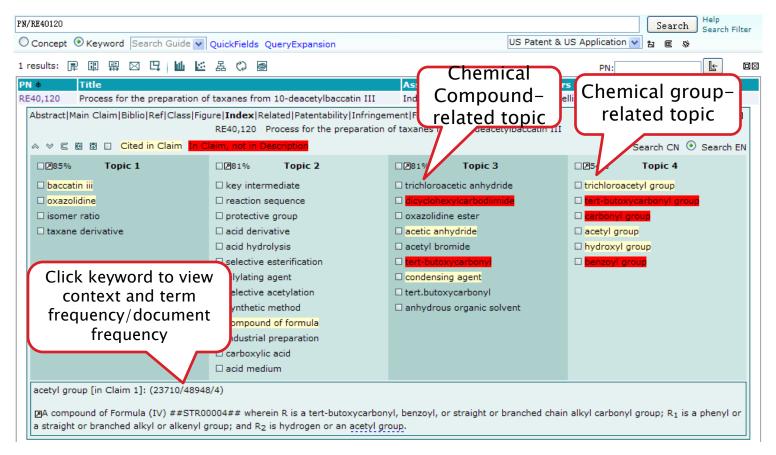
Machine Intelligence Matched with Human Intelligence

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Most Relevant 400 results: 厚 🕮 关 🖳 🔟 🐱 品 🗘 🞯 Rank(%):0 Filte PN:										
PN	Title		Assignee	Inventors	Class	ICL	Rank 🔹			
5,593,427	Electrotherapy method		Heartstream, Inc.	Gliner; Bradford E. Lyster; Thomas D. Cole; Clinton S. Powers; Daniel J. Morgan; Carlton B.	607	A61N	100%			
5,372,606	Blue -> cited prior art	asic defibrillation waveforms	Cardiac Pacemakers, Inc.	Lang; Douglas J. Swanson; David K.	607	A61N	96%			
5,468,254		phasic truncated exponential waveform	Cardiac Pacemakers, Inc.	Hahn; Stephen J. Swanson; David K.	607	A61N	95%			
4,821,723	Biphasic waveforms for defibrillation		Intermedics Inc.	Baker, Jr.; Ross G. Whistler; Stephen J. Ideker; Raymond E. Calfee; Richard V. Haluska; Edward A.	607	A61N	94%			
5,405,363	Implantable cardioverter defibrillator having a smal	ler displacement volume	Angelon Corporation	Kroll; Mark W. Adams; Theodore P. Anderson; Kenneth M. Smith; Charles U.	607	A61N	94%			
5,230,336	Method and apparatus for impedance based automa defibrillation shock delivery	atic pulse duration adjustment for	Ventritex, Inc.	Fain; Eric Pless; Benjamin Hardage; Michael	607	A61N	94%			
5,088,489	Red -> uncited prior art but			Lerman; Bruce B.	607	A61N	94%			
5,411,525	calculated related by Patentics	rator employing selective connection of	Cardiac Pacemakers, Inc.	Swanson; David K. Ideker; Raymond E. Walcott; Greg	607	A61N	94%			
5,391,186	Method and apparatus for utilizing short tau capacite defibrillator	ors in an implantable cardioverter	Angeion Corporation	Kroll; Mark W. Kroll; Kai C.	607	A61N	93%			
5,334,219	Method and apparatus for separate-capacitor cardio	oversion	Angeion Corporation	Kroll; Mark W.	607	A61N	93%			
4,637,397	Triphasic wave defibrillation		Case Western Reserve University	Jones; Janice L. Jones; Ronald E.	607	A61N	93%			
5,431,682	Implantable heart defibrillator		Pacesetter AB	Hedberg; Sven-Erik	607	A61N	93%			

More blue means more machine intelligence matched with human intelligence.

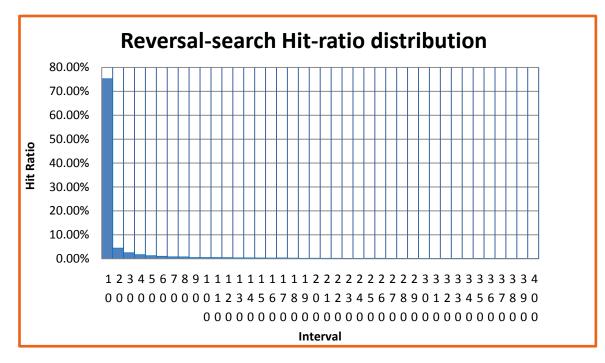
Auto-Extraction Keyword

- 1. Semantically extract most meaningful words/phrases from patent documents;
- 2. Cluster keywords based on meaning of topics in Patent document



Auto-keyword Quality Test

- 1. Extracted keywords (of 32) are compressed information;
- 2. That compressed information (32 keywords) is used to retrieve original document;



3. Reversal-search Hit-ratio is higher than 75%.

Intelligent Query Expansion

Utilize 3.1/3.7 million highly accurate English/Chinese concept model;

Medical Related			
"virus" is not wanted			Deleted
virus	rank by	X ⊗ ♥ ⊑ ── Search CN ⊙ S	Search EN Related
■ Related curnent Count by rank by p	position More		Words
□ □ B← infect 62763	□B← plasmaviridae s2	□B← rhabdoviridae 2247	□B← poxviridae 1504
□B← reoviridae 2010	□B← parvoviridae 2016	□B← campylobacter fetus fetus 1	
□ □⊮ bovine viral diarrhea mucosal disease	7 ⊡B← chikungunya fever 12	□B← jaagziekte 🤉	□B← dna polymerase herpes simplex 13
□B← cucumber necrosis 6	B← plasmodiidae 23	□B← hydra viridis 6	□B← phaeoseptoria 13
□B← california encephalitis group 93	□B← strain cork 16	□B← russian tick-borne encephalitis 2	B← european swine fever s
□B← cryptobia salmositica s	⊡B← cup fungi 6	□B+ h3n2 influenza subtype s	_B← myrobolan ε
□B← pox viridae 3			Hyponym
□ □B← infective 7121	□B← infected host 5511	□B← subsequent infection 2182	B⊮ attenuated strai
□ □ B+ encoded tk activity 30	⊡B← batai s	□B+ fish viral disease 7	D⊮ bolivian haemor Words
Be enterobacteria phage prd1 4	B← enterobacteria phage fr 4	B← insect-pathogenic microorganism 1	□B+ barfin flounder
Hyponym Document Count by rank by	position More		
□ □ B← virus infected cell 1720	B← virus envelope 504	⊟B← <mark>virus</mark> gp 16	□B← virus of plant 76
	□B← virus particle vaccine 6	□B← virus na 22	B← virus particle 9537
□B← virus quasispecies 51	□B← virus reproduction 213	□B← virus-resistant microorganism 3	B← virus replicase protein 6
□B← virus-like particle 2379	□B← virus-virus recombination 68	B← virus vaccinia 57	□B← virus strain 2331
□B← virus antigen 824	□B← <mark>virus</mark> gb 7	B← virus expression vector 1702	□B← <mark>virus</mark> -like 598
□B← virus association 6	B← virus propagation 795	□B← virus species 284	□B← <mark>virus</mark> -induced 1897
□ □ ^{B+} parainfluenza <mark>virus</mark> type 509	□ ^{Be} recombinant virus particle 518	Be recombinant virus lacking coat protein	□B← maedi visna <mark>virus</mark> mvv 14
□B← simian immunodeficiency virus vector	9 ⊡B← ttv-like <mark>virus</mark> dxl1 s	□B← hepatitis b virus promoter 7	□B← coxsackie <mark>virus</mark> b5 17
□B← coxsackie <mark>virus</mark> receptor 9	□B← plant <mark>virus</mark> cdna 6	□B← tyuleniy <mark>virus</mark> group 12	□B← murray valley encephalitis virus gene 14
□B← border disease virus strain 10	□B← infectious bursal disease virus ibdv 279) □B← chicken anemia <mark>virus</mark> cav 117	B← tick-borne encephalitis virus group 7
🗆 🗆 📴 gaeumannomyces graminis <mark>virus</mark> 🛛 4	Be attenuated virus 4396	□B← rna virus 9249	□ ^{Be} varicella-herpes zoster <mark>virus</mark> s
□B← wild-type <mark>virus</mark> 3397	□B← porcine polio virus 25	□B← infectious <mark>virus</mark> 5483	□B← dakar bat <mark>virus</mark> 19
□B← israel turkey meningoencephalomyelitis virus 15	□B← feline leukaemia <mark>virus</mark> 105	B← foot-and mouth virus 4	□B← broad bean necrosis <mark>virus</mark> 3
B← cache valley virus s	□B← oriboca virus 9	□B← bear encephalitis virus 9	□B← giardia lamblia virus s
□B← tamiami <mark>virus</mark> 12	B← duck enteritis virus 4	□B+ bovine viral diarrhea virus 1165	⊡B← triniti <mark>virus</mark> s2
□B← yellow fever virus 2864	enteric cytopathogenic bovine orphan virus 4	B← woolly monkey hepatitis b virus 6	□B← buzura suppressaria nuclear polyhedrosis virus 17

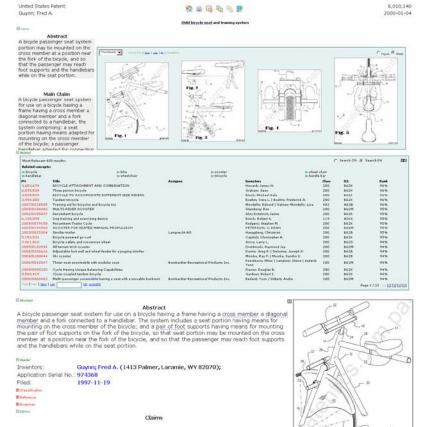
Ranking not only documents, but also related query terms

virus	rank by computer	🐒 💩 🕫 🔵 Search CN 📀	Search EN 🛛
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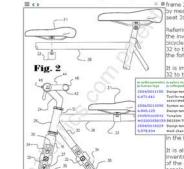


Fig. 3

 # frame 26. As shown on FIG. 2, the passenger seat 31 may be attached to the cross-member 28 by means of damps, adjustable supports 33, or the like, so that the position of the passenger leads 1 along the cross-member may be adjusted.

Referring now to FIGS. 1 through 4 it will be understood that a highly preferred embodiment of the invention will include at least one pair of foot supports 32 that mount to the fork 16 of the olicycle 12. The foot supports 32 attach to the fork 16 by means for mounting the foot supports 32 to the fork 16 of the blocket. These means may be damps, threaded fasteners that attach to the fork 16 or any other known attachment means.

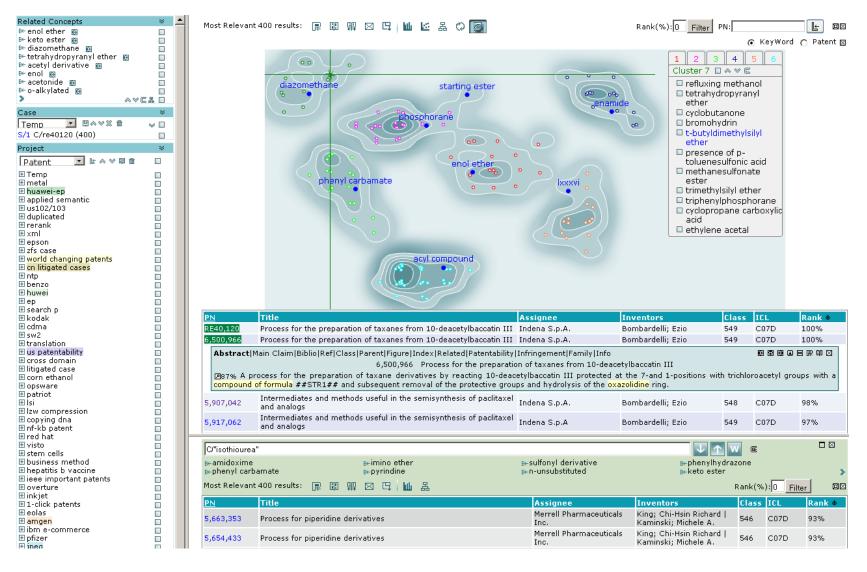
It is important to note, however, that the attachment means used to mount the foot supports 23 to the fork 16 should allow adjustment of the position of the foot supports along the fork. The support of the should allow adjustment of the position of the foot supports along the fork. The support of the s

It is also important to note that, as shown on FIGS. 1 and 4, the preferred embodiment of the invention includes means for shielding the user from the spokes 20. In a preferred embodiment of the invention these means for shielding the user from the spokes 1a. The preferred embodiment of the invention these means for shielding the user from the spokes 1a fender 38 with side annels 40 thats prevent a passenger's feet from acciderate lantanglement with the spokes 20 of the wheel 18. It is contemplated that the side panels 40 may attach to the fork 16 by one of many known attachment means.

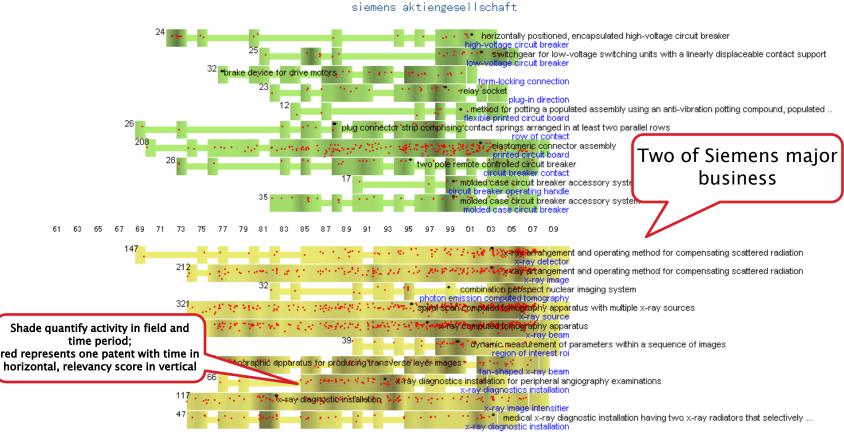
As shown on FIG. 3, a preferred embodiment of the invention also includes a pair of foot supports 32 that have been mounted to the diagonal member 30 of the bicycle frame 26. Preferably, the foot supports 32 will be mounted on the diagonal member 30 by means that will allow adjustment of the position of the foot supports 32 along the diagonal member 30.

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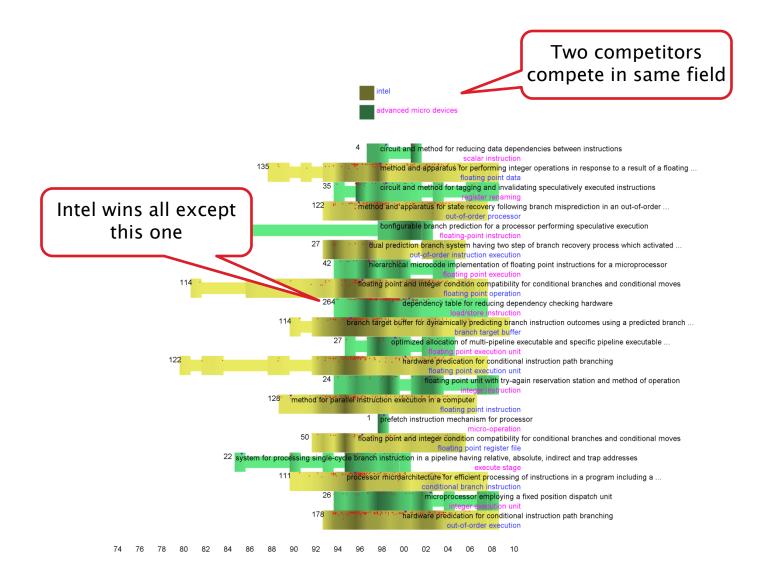


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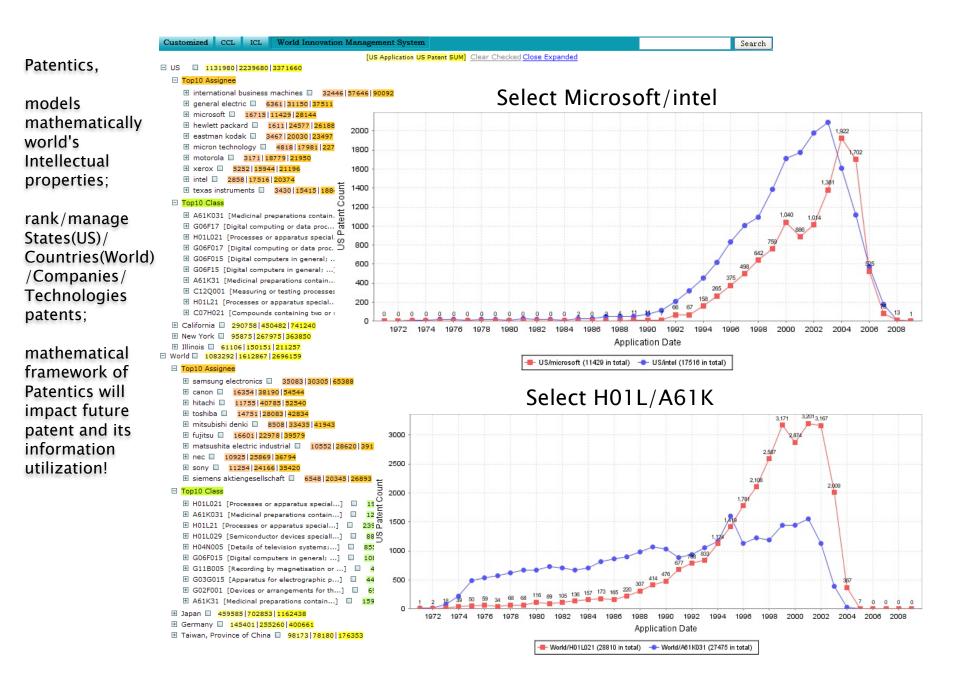
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	Abstract Main Claim Biblio Ref Class Parent Figure Index Related Patentability Infringement Family Info 医团团口目原唧口 6,500,966 Process for the preparation of taxanes from 10-deacetylbaccatin III 回87% A process for the preparation of taxane derivatives by reacting 10-deacetylbaccatin III protected at the 7-and 1-positions with trichloroacetyl groups with a compound of formula ##STR1## and subsequent removal of the protective groups and hydrolysis of the oxazolidine ring.											
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5	,945,518	Process for the preparation of anthracycline a	WO20040968 EP1654271	30 SYNTHESIS OF SOLA STEROID MODIFIED								
7	,563,914	Method for preparing paclitaxel		54 STEROID MODIFIED 65 PROCESS FOR PREPA			OSES					
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	radical, then b) acetylating the hydroxy radical in position 10, c) optionally crystallizing the resulting baccatine III derivation condensation of (4S,SR)-3-N-benzyl-2RS-methoxy-4-phenyl-1,3-oxazolidine-5-carboxylic acid, by esterifying in position 13 the acetylated 10-baccatine III derivative previously obtained, then opening the oxazolidine of the cyclic side chain and simultaneously releasing the hydroxy radical in position 7.											

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